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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An AC/DC or DC/DC adapter for providing DC power via at least one power line to a portable electronic device, said adapter, comprising circuitry to generate a an identification signal proportional to the a maximum adapter current available from said adapter.
2. (currently amended) An AC/DC or DC/DC adapter as claimed in claim 1, said circuitry comprising a current limit encoder generating said identification signal ~~proportional to the maximum adapter current.~~
3. (currently amended) An AC/DC or DC/DC adapter as claimed in claim 1, said circuitry comprising an identification resistor coupled to ~~the~~ a positive adapter voltage.
4. (currently amended) An AC/DC or DC/DC adapter as claimed in claim 1, said circuitry comprising an identification resistor coupled to ~~the~~ a negative adapter voltage.
5. (currently amended) An AC/DC or DC/DC adapter as claimed in claim 1, said circuitry comprising a current sense resistor coupled to ~~the~~ a positive adapter voltage and a current sense comparator coupled to said current sense resistor, said current sense comparator having a set

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upper gain and generating a normalized value of said identification signal ~~proportional to the maximum adapter current.~~

6. (currently amended) An adapter topology system, comprising an AC/DC or DC/DC adapter comprising circuitry to generate a an identification signal proportional to the a maximum adapter current available from said adapter; and a portable electronic device adapted to receive power from said adapter via at least one power line and to receive said identification signal from said adapter ~~proportional to the maximum adapter current.~~

7. (currently amended) An adapter topology system as claimed in claim 6, said circuitry comprising a current limit encoder generating said identification signal ~~proportional to the maximum adapter current~~, said portable electronic device comprising a current limit decoder receiving said identification signal ~~proportional to the maximum adapter current~~ and generating a voltage proportional to the rated said maximum adapter current of said adapter.

8. (currently amended) An adapter topology system as claimed in claim ~~[[6]]~~ 7, said current limit decoder comprising a keyboard controller, said keyboard controller generating SMBus commands to a digital to analog circuit to generate said voltage proportional to the rated said maximum adapter current of said adapter.

9. (currently amended) An adapter topology system as claimed in claim 6, said circuitry comprising an identification resistor coupled to the a positive adapter voltage; said portable

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electronic device comprising a reference resistor coupled between said identification resistor and ground thereby forming a voltage divider generating ~~said a~~ a voltage proportional to ~~the rated~~ said maximum adapter current of said adapter.

10. (currently amended) An adapter topology system as claimed in claim 6, said circuitry comprising an identification resistor coupled to ~~the a~~ a negative adapter voltage; said portable electronic device comprising a reference resistor coupled between said identification resistor and a reference voltage thereby forming a voltage divider generating ~~said a~~ a voltage proportional to ~~the rated~~ said maximum adapter current of said adapter.

11. (currently amended) An adapter topology system as claimed in claim 6, said circuitry comprising a current sense resistor coupled to ~~the a~~ a positive adapter voltage and a current sense comparator coupled to said current sense resistor, said current sense comparator having a set upper gain and generating a normalized value of said identification signal ~~proportional to the maximum adapter current~~; said portable electronic device comprising a resistor coupled between said identification signal ~~proportional to the maximum adapter current~~ and ground thereby generating a voltage representing ~~the a~~ a percentage that ~~the an~~ actual current is with respect to the maximum adapter current.

12. (currently amended) An adapter topology system as claimed in claim 6, said current limit decoder comprising a keyboard controller, said keyboard controller generating SMBus commands to a multiplexed digital to analog converter through an SMBus programmable

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interface, said multiplexed digital to analog converter generating ~~said~~ an analog signal proportional to the maximum adapter current.

13. (currently amended) A portable electronic device, comprising circuitry to receive a an identification signal proportional to ~~the~~ a maximum adapter current supplied to said portable electronic device and a charger controller by an AC/DC or DC/DC adapter.

14. (currently amended) A portable electronic device as claimed in claim 13, said circuitry comprising a current limit decoder receiving a coded signal indicative of said identification signal ~~proportional to the maximum current supplied to said portable electronic device and~~ generating a voltage proportional to ~~the rated~~ said maximum adapter current of ~~an~~ said AC/DC or DC/DC adapter supplying power to said portable electronic device.

15. (currently amended) A portable electronic device as claimed in claim 14, said current limit decoder comprising a keyboard controller, said keyboard controller generating SMBus commands to a digital to analog circuit to generate said voltage proportional to ~~the rated~~ said maximum adapter current ~~of said adapter~~.

16. (currently amended) A portable electronic device as claimed in claim 13, said circuitry comprising a reference resistor coupled between said identification signal ~~proportional to the maximum adapter current and ground~~ generating ~~said~~ a voltage proportional to ~~the rated~~ said

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maximum adapter current of an said AC/DC or DC/DC adapter supplying power to said portable electronic device.

17. (currently amended) A portable electronic device as claimed in claim 13, said circuitry comprising a reference resistor coupled between said identification signal ~~proportional to the maximum current supplied to said portable electronic device~~ and a reference voltage, and generating a voltage proportional to the ~~rated~~ said maximum adapter current of an said AC/DC or DC/DC adapter supplying power to said portable electronic device.

18. (currently amended) A portable electronic device as claimed in claim 13, ~~said identification signal proportional to the maximum current supplied to said portable electronic device~~ comprising a normalized signal; said circuitry comprising a resistor coupled between said normalized signal and ground thereby generating a voltage representing the a percentage that the an actual current supplied to said portable electronic device is with respect to the maximum adapter current.

19. (currently amended) A portable electronic device as claimed in claim 14, said current limit decoder comprising a keyboard controller, said keyboard controller generating SMBus commands to a multiplexed digital to analog converter through an SMBus programmable interface, said multiplexed digital to analog converter generating ~~said an~~ analog signal proportional to the maximum current supplied to said portable electronic device.